

### Students Win Music Citations

Twenty Torrance students have earned excellent or superior ratings at the South Bay Area Solo and Ensemble Festival, held at West High School.

The students now are eligible to participate in the Southern California School Band and Orchestra Association festival at Long Beach State College in May, according to Ronald Large, festival chairman and West High band director. Superior ratings were accorded Wayne Blackburn of Flavian Elementary School, Bruce Short of Torrance High, Penny Roberts of Torrance Elementary School, and Richard Shelton and Douglas Cassell of South High.

West High students earned 16 superior or excellent ratings. Award winners include

Joyce Angell, Pat Benningfield, Darryl Buntin, Lorman Rick Griffith, Patti Hulett, Darryl Keene, Eric Lillo, Larry Lindow, Steven Pearson, Philip Perrine, Nola Phillips, Neal Shinder, Don Van der Maten, strings.

### Named To Committee

Appointment of Leonard A. Ensminger, administrator of Torrance Memorial Hospital, as a member of the Hospital Council-Blue Cross Relations Committee has been announced by Henry A. Dunlap, president of the Hospital Council of Southern California.

Dunlap also named Ensminger to two other posts. They include an assignment as chairman of the coast area

representatives to the council.

Coast area representatives act as a grievance committee for the council and investigate complaints against member hospitals.

### Scout-O-Rama/66

Sat., May 21

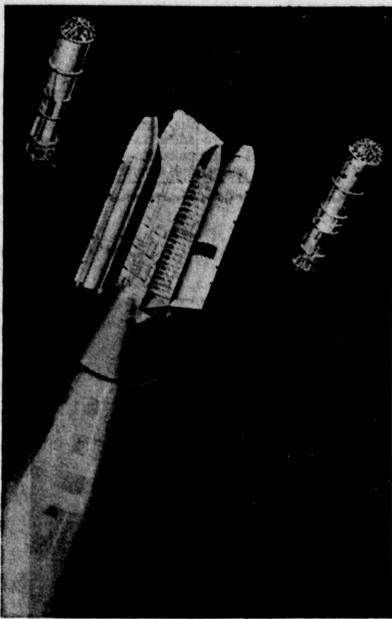
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## Vote Tuesday April 12 TORRANCE CITY COUNCIL

**Leo F. X. Salisbury** X

Torrance Planning Commissioner, Resigned Says:  
"Let's have liaison between Torrance School Board and Torrance City Council!"



**TWIN SATELLITES . . .** Air Force research satellites, carried into space by an Atlas D missile from Vandenberg Air Force Base, are pictured in an artist's rendering of the separation. The twin satellites were blasted free of the Atlas missile into their own power cartridges developed and manufactured by Hi-Shear Corp. of Torrance.

### Hi-Shear Helps Put Satellites In Orbit

Carried aloft by a single Atlas D missile from Vandenberg Air Force Base, March 30, two Air Force research satellites are now circling the earth in 480- and 514-mile orbits.

The twin satellite, known as Orbital Vehicle One-Four (OV1-4) and OV1-3, used thrusters, separation nuts and power cartridges developed and manufactured in Torrance by the Hi-Shear Corp.

For their rocket ride into space, the satellites were enclosed in a protective pod. Five minutes after launch which occurred at 1:25 a.m. last Wednesday, the OV1 vehicles popped out of their cocoons and coasted for about eight minutes. A solid fuel rocket motor on each satellite then fired for about 22 seconds, injecting the OV1s into their individual orbits.

Once in orbit, the satellites coasted for about two minutes prior to separation from their dead rocket motors. One domed end of each satellite was attached to the front

of its propulsion unit with a Hi-Shear thruster. The thrusters separated the satellites from their 780-pound propulsion modules with Hi-Shear power cartridges. The cartridges produced high-pressure-gases electro-explosively, driving a piston forward to free the scientific satellites from their spent propulsion units.

One of the OV1 satellites is conducting infrared studies. The unit carries a number of optical sensors which had to be uncovered. Hi-Shear's low reaction separation nuts were fired at 2.5-second intervals with Hi-Shear power cartridges to remove hatches covering the sensors.

The OV1 satellites, built by the Convair Division of General Dynamics for the Air Force of Aerospace Research, are being designed to transmit for 90 days such data as the thermal characteristics of the earth and atmosphere, the effects of long-term weightlessness on living organisms, and growth rates of selected plants.

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### VOTE TUESDAY, APRIL 12th

We are pleased to recommend CLIFFORD J. PETERSON for Torrance City Council. He will provide the strong leadership in all areas of City Government. He has no conflict of interest whatsoever.

- |                           |                          |
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